

Sheet 1 of 4

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Application Number	10/566,448
Filing Date	April 18, 2006
First Named Inventor	Alphey et al.
Art Unit	1632
Examiner Name	Sgagias, Magdalene K
Attorney Docket Number	7-06

Confirmation No. 1911

GS 12/14/2010

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No.	Patent Number	Issue Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/M.S./	1	5,254,801	10-19-1993	Dotson et al.	
	2	6,962,810	11-08-2005	Fraser et al.	
	3	6,200,800	03-13-2001	Chouluka et al.	
	4	6,338,040	01-08-2002	Buman et al.	

U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No.	Publication Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	5	2006/0212949	09-21-2006	Alphey	
	6	2006/0275276	12-07-2006	Alphey	
	7	2009/0183269	07-16-2009	Alphey	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No.	Foreign Document Number	Country Code	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	8	1998/008960	WO	03-05-1998	Amutan et al.		
	9	2355459	GB	04-25-2001	Alphey et al.		
	10	2001/091802	WO	12-06-2001	Aguilar-Cordova		
	11	2002/046444	WO	06-13-2002	Goryshin et al.		
	12	2002/101061	WO	12-19-2002	Perez et al.		
	13	2004/044150	WO	05-27-2004	Horn et al.		
	14	2004/098278	WO	11-18-2004	Alphey		
	15	2005/003364	WO	01-13-2005	Alphey		
	16	2007/091099	WO	08-16-2007	Alphey		

NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No.	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	17	Prosecution history for related application USSN 10/556,804, 27 pp.	
	18	Prosecution history for related application USSN 11/352,177, 129 pp.	
	19	Prosecution history for related application USSN 12/278,849, 20 pp.	
	20	Prosecution history for related application USSN 10/562,843, 63 pp.	
	21	Search Report corresponding to International Application No. PCT/GB2007/000488, parent of the present application.	
	22	Written Opinion corresponding to International Application No. PCT/GB2007/000488, parent of the present application.	

Examiner Signature	/Magdalene Sgagias/	Date Considered	01/16/2011
--------------------	---------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.S./

Sheet 2 of 4

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/566,448
		Filing Date	April 18, 2006
		First Named Inventor	Alphey et al.
		Art Unit	1632
		Examiner Name	Sgagias, Magdalene K
		Attorney Docket Number	7-06

Confirmation No. 1911

GS 12/14/2010

Examiner Initial*	Cite No.	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/M.S./	23	International Preliminary Report on Patentability, corresponding to International Application No. PCT/GB2007/000488, parent of the present application.	
	24	ALPHEY et al. (2007) "Managing Insecticide Resistance by Mass Release of Engineered Insects" J. Econ. Entomol. 100(5):1642-1649.	
	25	ARRIBAS et al. (1986) "The ubiquitin genes in <i>D. melanogaster</i> : transcription and polymorphism" Biochimica et Biophysica Acta 868:119-127.	
	26	ATKINSON et al. (2000) "Hermes and Other hAT Elements as Gene Vectors in Insects," In: <u>Insect Transgenesis: Methods and Applications</u> , Hadler et al. eds., Boca Raton CRC Press, pp. 219-235.	
	27	BLITVICH et al. (2002) "Developmental- and tissue-specific expression of an inhibitor of apoptosis protein 1 homologue from <i>Aedes triseriatus</i> mosquitoes" Insect Molecular Biology 11(5):431-442.	
	28	CABERA et al. (2002) "Expression Pattern of Gal4 Enhancer Trap Insertions Into the <i>bric à brac</i> Locus Generated by P Element Replacement," Genesis 34:62-65.	
	29	CARRIERE and TABASHNIK (2001) "Reversing Insect Adaptation to Transgenic Insecticidal Plants," Proc. R. Soc. Lond. B. 268:1475-1480.	
	30	CHEN et al. (1996) "Apoptotic Activity of REAPER Is Distinct from Signaling by the Tumor Necrosis Factor Receptor 1 Death Domain" The Journal of Biological Chemistry 271(42):25735-25737.	
	31	DAVIS et al. (2001) "Engineered Underdominance Allows Efficient and Economical Introgression of Traits into Pest Populations," J. Theor. Biol. 212(1):83-98.	
	32	ELICK et al. (1997) "Analysis of the Cis-Acting DNA Elements Required for <i>piggyback</i> Transposable Element Excision," Mol. Gen. Genet. 255:605-610.	
	33	ERNST, U. (1991) "Regulation of Sexual Differentiation in <i>Drosophila</i> : Alternative Splicing of the <i>Transformer</i> Primary Transcript Requires Masking of the Non-Specific Acceptor Site in Females," Inaugural Dissertation, Aus Frankfurt / Main, BRD.	
	34	FU et al. (2007) "Female-specific insect lethality engineered using alternative splicing", Nature Biotechnology 25(3):353-357.	
	35	FUNAGUMA et al. (2005) "The Bmdsx transgene including trimmed introns is sex-specifically spliced in tissues of the silkworm, <i>Bombyx mori</i> ", Journal of Insect Science (online), 5(17):1-6.	
	36	GLOOR et al. (1991) "Targeted Gene Replacement in <i>Drosophila</i> Via P Element-Induced Gap Repair," Science 253:1110-1117.	
	37	GONG et al. (2005) "A dominant lethal genetic system for autocidal control of the Mediterranean fruitfly", Nature Biotechnology 23(4):453-456.	
	38	GONZY-TREBOUL et al. (1995) "Enhancer-Trap Targeting at the Broad-Complex Locus of <i>Drosophila melanogaster</i> ," Genes Dev. 9:1137-1148.	
	39	HANDLER et al. (2001) "A Current Prospective on Insect Gene Transformation," Insect Biochem. Mol. Biol. 31(2):111-128.	
	40	HANDLER, A. (2002) "Use of <i>piggyback</i> Transposon for Germ-Line Transformation of Insects," Insect Biochem. Mol. Biol. 32:1211-1220.	

Examiner Signature	/Magdalene Sgagias/	Date Considered	01/16/2011
--------------------	---------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.S./

Sheet 3 of 4

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/566,448
		Filing Date	April 18, 2006
		First Named Inventor	Alphey et al.
		Art Unit	1632
		Examiner Name	Sgagias, Magdalene K
		Attorney Docket Number	7-06

Confirmation No. 1911

GS 12/14/2010

Examiner Initial*	Cite No.	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/M.S./	41	HESLIP et al. (1994) "Targeted Transposition at the <i>vestigial</i> Locus of <i>Drosophila melanogaster</i> ," Genetics 138:1127-1135.	
	42	HONDRED et al. (1999) "Use of Ubiquitin Fusions to Augment Protein Expression in Transgenic Plants" Plant Physiology 119:713-723.	
	43	HORN et al. (2003) "piggyBac-Based Insertional Metagenesis and Enhancer Detection as a Tool for Functional Insect Genomics," Genetics 163(2):647-661.	
	44	HORN et al. (2002) "Fluorescent Transformation Markers for Insect Transgenesis," Insect Biochem. Mol. Biol. 32:1221-1235.	
	45	IMAI, C. (1987) "Control of Insecticide Resistance in a Field Population of Houseflies, <i>Musca Domestica</i> , by Releasing Susceptible Flies," Res. Popul. Ecol. 29:129-146.	
	46	JOHNSON-SCHLITZ et al. (1993) "P-Element-Induced Interallelic Gene Conversion of Insertions and Deletions in <i>Drosophila melanogaster</i> ," Mol Cell Biol. 13:7006-7018.	
	47	LANKENAU et al. (1996) "Comparison of Targeted-Gene Replacement Frequencies in <i>Drosophila melanogaster</i> at the <i>Forked</i> and <i>White</i> Loci," Mol. Cell Biol. 16:3535-3544.	
	48	MUNOZ et al. (2004) "The AeAct-4 gene is expressed in the developing flight muscles of female <i>Aedes aegypti</i> ," Insect Molecular Biology 13(5):563-568.	
	49	<i>piggyBac</i> website, http://piggybac.bio.nd.edu/ , March 21, 2006, 5 pp.	
	50	ROBINSON et al. (2002) "Mutations and Their Use in Insect Control," Mutation Research 511(2):113-132.	
	51	RONG et al. (2000) "Gene Targeting by Homologous Recombination in <i>Drosophila</i> ," Science 288:2013-2018.	
	52	RONG et al. (2001) "A Targeted Gene Knockout in <i>Drosophila</i> ," Genetics 157:1307-1312.	
	53	RUSS et al. (1996) "Self-Deleting Retrovirus Vectors for Gene Therapy," J. Virol. 70:4927-4932.	
	54	SACCONI et al. (2002) "Sex determination in flies, fruitflies and butterflies" Genetica 116:15-23.	
	55	SCALI et al. (2005) "Identification of sex-specific transcripts of the <i>Anopheles gambiae</i> doublesex gene", Journal of Experimental Biology 208(19):3701-3709.	
	56	SEPP et al. (1999) "Conversion of <i>lacZ</i> Enhanced Trap Lines to <i>GAL4</i> Lines Using Targeted Transposition in <i>Drosophila melanogaster</i> ," Genetics 151:1093-1101.	
	57	SHELTON et al. (2000) "Field Tests on Managing Resistance to <i>Bt</i> -Engineered Plants", Nature Biotechnology 18(3):339-342.	
	58	STEINER et al. (1995) "Homologous Recombination as the Main Mechanism for DNA Integration and Cause of Rearrangements in the Filamentous Ascomycete <i>Ashbya gossypii</i> ," Genetics 140:973-987.	
	59	WOBUS et al. (1990) "A New Transposable Element in <i>Chironomus thummi</i> ," Mol. General Genet. 222:311-316.	

Examiner Signature	/Magdalene Sgagias/	Date Considered	01/16/2011
--------------------	---------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.S./

Sheet 4 of 4

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/566,448
		Filing Date	April 18, 2006
		First Named Inventor	Alphey et al.
		Art Unit	1632
		Examiner Name	Sgagias, Magdalene K
		Attorney Docket Number	7-06

Confirmation No. 1911

GS 12/14/2010

Examiner Initial*	Cite No.	REFERENCE	
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/M.S./	60	WOOL and MANHEIM (1980) "Genetically-Induced Susceptibility to Malathion in <i>Tribolium Castaneum</i> Despite Selection for Resistance," Ent. Exp. & Appl. 28:183-190.	

Examiner Signature	/Magdalene Sgagias/	Date Considered	01/16/2011
-----------------------	---------------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.S./